

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT

**PERMIT TO OPERATE A SEPTAGE LAND  
APPLICATION SITE**

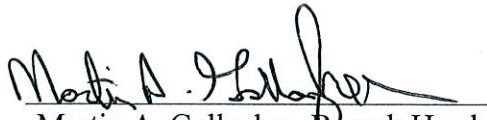
Gann Brothers Septic Tank Service, Inc.  
Patrick & Eric Gann  
191 Percy Lane  
Mayodan, NC 27027

is hereby issued a permit to operate Septage Land Application Site with permit #SLAS-79-04 located on SR#1166 in Rockingham County in approximate position 36.40585° N latitude and -80.01926° W longitude. The site is to be operated in accordance with 15A NCAC 13B .0800 Septage Management, the information stated in the approved application, and the conditions of this permit. The unauthorized disposal of any liquid or solid wastes other than those specified in the conditions of this permit will be considered a violation of the conditions of this permit. Failure to comply with the conditions of this permit may result in permit suspension, permit revocation, action for injunctive relief, administrative penalties, or other remedies as provided in G.S. 130A, Article 1., Part 2.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in affect at the time of review.

Date Issued

8/8/2012

  
Martin A. Gallagher, Branch Head  
Solid Waste Section

Operator: Patrick & Eric Gann  
SLAS# 79-04  
County: Rockingham

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**Permit Conditions:**

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Patrick & Eric Gann and approved by the Division of Waste Management. **The 11.4 acre site shall be divided into two fields know as Field 1 (5.8 acres) and Field 2 (5.6).** The 30 day waiting period between the last application of septage and the harvest of the crop shall be met by alternating septage applications, the waiting period and harvest between the two permitted fields on the site. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Patrick & Eric Gann in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other local, state and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the requirements of 40 CFR 503.
5. This permit may be modified or reissued to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.
7. **This site contains approximately 11.4 acres that are available for septage land application.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total maximum annual application rate of 570,000 gallons. This application rate assumes equal septage distribution, on an annual basis, over the permitted area. **Monthly septage applications shall not exceed the monthly relative application rates given in the approved nutrient management plan for the site.**
8. An approved above ground septage detention system with a minimum design capacity of 10,961 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner as to have no standing water when the discharge is complete. Septage shall not be applied during periods of high soil moisture.



Operator: Patrick & Eric Gann  
SLAS #: 79-04  
County: Rockingham

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10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become void unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the permittee shall discharge septage at this site without prior appropriate notification and written approval of the Division.
14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on August 8, 2017.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. **An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date.** A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838(e)(1) of the NC Septage Management Rules and 40 CFR Part 503.17(b) of the Federal Register.
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas which can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.





North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

August 8, 2012

Messrs. Patrick & Eric Gann  
Gann Brothers Septic Tank Service, Inc.  
191 Percy Lane  
Mayodan, NC 27027

**RE: SLAS permit renewal  
Gann Brothers Septic Tank Service, Inc.  
SLAS-79-04  
SR#1166 in Rockingham County**

Dear Messrs. Gann:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Rockingham County. Your application has been approved and your permit, # SLAS-79-04, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until August 8, 2017. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have prior approval from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie Wylie, Soil Scientist  
Composting & Land Application Branch



# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

## I. Site and Operator Information

1. Applicant Patrick GANN + Eric Gann / Gann Brothers Septic Tank Serv. Inc.  
Address 191 Percy Lane  
Mayodan, N.C. 27027  
Phone shop-336-548-2971 cell-336-589-5478 Patrick

2. Contact person for site operation (if different from applicant):  
Title or position \_\_\_\_\_ Phone \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

3. Landowner Patrick F. Gann  
Address 831 Case School Rd  
Mayodan NC 27027

4. Site Location: County Rockingham State Road Number #1166  
Directions to site: From Madison go 3 mi. west on Hwy 704, +1  
on Case Rd., go to end of pavement. Fields on left.

5. Indicate whether request is: new \_\_\_\_\_ renewal ☒ modification \_\_\_\_\_

For a permit renewal or modification, provide the following information:

Existing site permit number: 79-04 permit expiration date: 4-9-12

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 11.43 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:  
(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.**

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report. (On file)

10. Attach a vicinity map (county road map showing site location). (On file)

(over)

JAN 11 2012

DIVISION OF WASTE MANAGEMENT  
FACILITIES



## II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): SDTF #79-04 and Eden WWTP
4. Types of septage proposed to be discharged at the site (check all that apply):
  - (a) Domestic septage pumped from septic tanks ☒
  - (b) Grease trap pumpings ☒
  - (c) Portable toilet waste ☐
  - (d) Commercial / Industrial septage ☐
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Use hydrated lime to raise PH up to 12
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): Each load of septage discharged at the site shall be distributed from a moving truck in such a manner as to having no standing water when discharge is complete.
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law \*\* or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): Site is agricultural land.

## III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Patrick Gann / Eric Gann  
Signature\*\*\*

1-4-12  
Date

Patrick Gann + Eric Gann  
Print name

site operator + Pres.  
Title

Note: This application will not be reviewed until all parts of the application are complete.

\* Refer to Section .0837(e) of the N.C. Septage Management Rules.

\*\* Refer to Section .0837(g) of the N.C. Septage Management Rules.

\*\*\*Signature of company official required.

## ATTACHMENT TO APPLICATION

**RECEIVED**  
JUL 23 2012DIVISION OF WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE

5. Proposed treatment method of each type of septage to be land applied.

Enough hydrated lime shall be added to domestic septage to raise the pH to 12 or higher and hold at pH 12 or higher for a half hour prior to land application. Enough hydrated lime shall be added to grease septage to raise the pH to 12 or higher and hold at pH 12 or higher for two hours prior to land application. All septage shall be a pH 12 or higher at the time land application occurs.

*Eric Jan*  
*Patrick F. Jan*

Signature

7-19-12

7-19-12

Date



staying with  
fescue fields  
at this time  
per Patrick  
Gann

THE FOLLOWING IS THE NUTRIENT MANAGEMENT PLAN, AND EROSION  
AND RUNOFF CONTENT PLAN FOR:

SLAS #79-04  
11-08-06

OPERATED BY: Gann Brothers Septic Tank Service, Inc.

RECEIVED  
AUG 10 2012

DEPT. OF WASTE MANAGEMENT  
FAIRFAX COUNTY REGIONAL OFFICE

A. General Information:

1. Periodic Sampling [at least 1/year] of the septage will be conducted for waste analysis.
2. Field site # 79-04 permitted for septage application consist of:
  - Field # 1 containing approximately ~~7.5~~ <sup>5.8</sup> acres and is established in Tall Fescue
  - Field # 2 containing approximately ~~7.5~~ <sup>5.6</sup> acres and is established in Tall Fescue
3. The dominant soil type is:  
Fields # 1 and # 2 are MeB2- Mayodan Series with a 2-8% slope
4. Septage will not be applied where the site is untrafficable, [Untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches depth] during rainfall events, or when the surface is frozen. Septage or nutrient applications should not be made during periods when excess rainfall is expected so as to prevent movement of nutrients off site.
5. When soil conditions do not allow for application, septage storage shall be provided to account for the average volume of septage pumped per week or disposal at waste treatment plant will be utilized.

B. Crops To Be Grown and Approximate Planting and Harvesting Time:

1. Site # 79-04 [fields 1 & 2 ] is located off Case Road or SR 1166 3 miles west of Madison in Rockingham County off Hwy. 704 and go to end of pavement. Fields will be on the left.
2. In order for this fescue field to receive septage, a ~~90%~~ <sup>80%</sup> stand should be maintained and soil test should indicate that the field is agronomically suitable for septage applications. Fescue stand will be monitored to determine when reseeding is necessary.



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Septage applications will be suspended in areas that:

A- need reseeding, which will allow soil preparation and establishment of a stand of fescue that can utilize applied nutrients. If reseeding becomes necessary, following the seeding rates and dates recommended in the Planting Guide For Forage Crops In NC. Best reseeding dates for fescue are August 25 - September 15 with possible dates being August 25 - October 25 or February 15 - March 31. Seeding rates should be 15 - 20 lb/acre if Broadcast or 10 - 15 lbs/acre if drilled.

B- during periods when excess rainfall is expected so as to prevent movement of nutrients off site or

C- is agronomically unsound.

3. Septage application rates will be based on nutrient needs of fescue. Fields will be mowed and removed or utilized for hay production. When the fescue reaches 12 inches in height it will be harvested and removed. Approximately 3 to 4 cuttings is expected.
4. A 30 day waiting period will be observed between the last application of septage and harvesting.

#### C. NITROGEN NEEDS FOR CROPS GROWN:

1. Fescue will be harvested and removed. Septage application will be based on nutrient needs of fescue and will not exceed 157.5 lbs. N/acre/year as determined.

R.Y.E. = Realistic Yield Expectations

N App. Rate = Suggested Nitrogen (N) Application rate based on R.Y.E. for soil type.

Site #	Crop (Cut for Hay)	R.Y.E.	N App. Rate	Lbs N/Acr.
79-04				
<del>79</del> 1	Tall Fescue	3.5 Tons/Acre X	45 Lbs. =	157.50
<del>79</del> 2	Tall Fescue	3.5 Tons/Acre X	45 Lbs. =	157.50



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## RELATIVE APPLICATION RATE FOR SITE:

RELATIVE RATES

<u>MONTH</u>	<u>Field 2A</u>	<u>Field 2B</u>
January	Low	Low
February	Medium	Medium
March	High	High
April	High	High
May	Medium	Medium
June	Low	Low
July	Low	Low
August	Low	Low
September	Medium	Medium
October	Medium	Medium
November	Medium	Medium
December	Low	Low

Low = 5000 Gals.      Medium = 10000 Gals.      High = 15000 Gals.

NOTE: CUMULATIVE APPLICATION RATE IS NOT TO EXCEED THE  
PERMITTED APPLICATION RATE.

## E. APPLICATION METHOD:

1. The preceding information is based on septage being evenly applied over the entire permitted site by truck splash plate spraying. Application will be uniform over treated area.

## F. ADDITIONAL FERTILITY REQUIREMENTS:

1. Site shall be soil tested and fertilized according to soil test results for tall fescue.
2. The application site shall be soil sampled at least once each year. Nitrogen needs of the fescue are to be met with the septage applied. Soil test results will be used to determine other nutrients that should be applied to fertilize the fescue. Phosphorus and potassium are the nutrients that will require commercial fertilizer applications.
3. In fescue buffer areas of the fields, soil test shall be taken and fertilized, according to recommendations, with commercial fertilizer.

## G. HARVEST OF CROPS AND USE:

1. The fescue will be cut and removed or cut as hay and baled whenever it reaches approximately 12 inches in height. With three to four cuttings expected annually.



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2. A 30 day waiting period must be observed between the last application of septage and hay harvest. Beginning about the first of April each year, septage will be applied to Field 2 while the fescue on Field 1 is undisturbed for 30 days. After 30 days Field 1 will be harvested and septage application switched to Field 1. After an additional 30 days the fescue can be harvested on Field 2 and rotation schedule is established between 1 & 2. *and followed thru the growing season*
  3. Accurate records should be maintained of all activities on these fields and pumping of septage. Records should include date, amounts and fields that septage was applied.
- H. SOIL EROSION AND RUNOFF CONTROL:
1. Where septage is applied care should be taken to honor and maintain all setbacks according to NCDENR standards.
  2. Given application site 79-04 does not exceed 5% slope, a 50 foot buffer, planted in a permanent tall fescue stand should suffice to prevent septage from migrating off fields.
  3. Setbacks of 50 feet must to be observed between sites and all property lines.
  4. Areas should be flagged to show all application areas and setbacks.

#### Weed Control

Weed control may be needed in order to maintain 80% groundcover and to produce the realistic yield expectations for the approved cropstand. Weed control can be obtained through different methods (mowing or herbicides) or a combination of methods. For specific recommendations, proper identification of the weed or weeds is necessary. The local cooperative extension agent or regional agronomist may be contacted for advice.

*Patrick Dam*  
*Eric Dam*

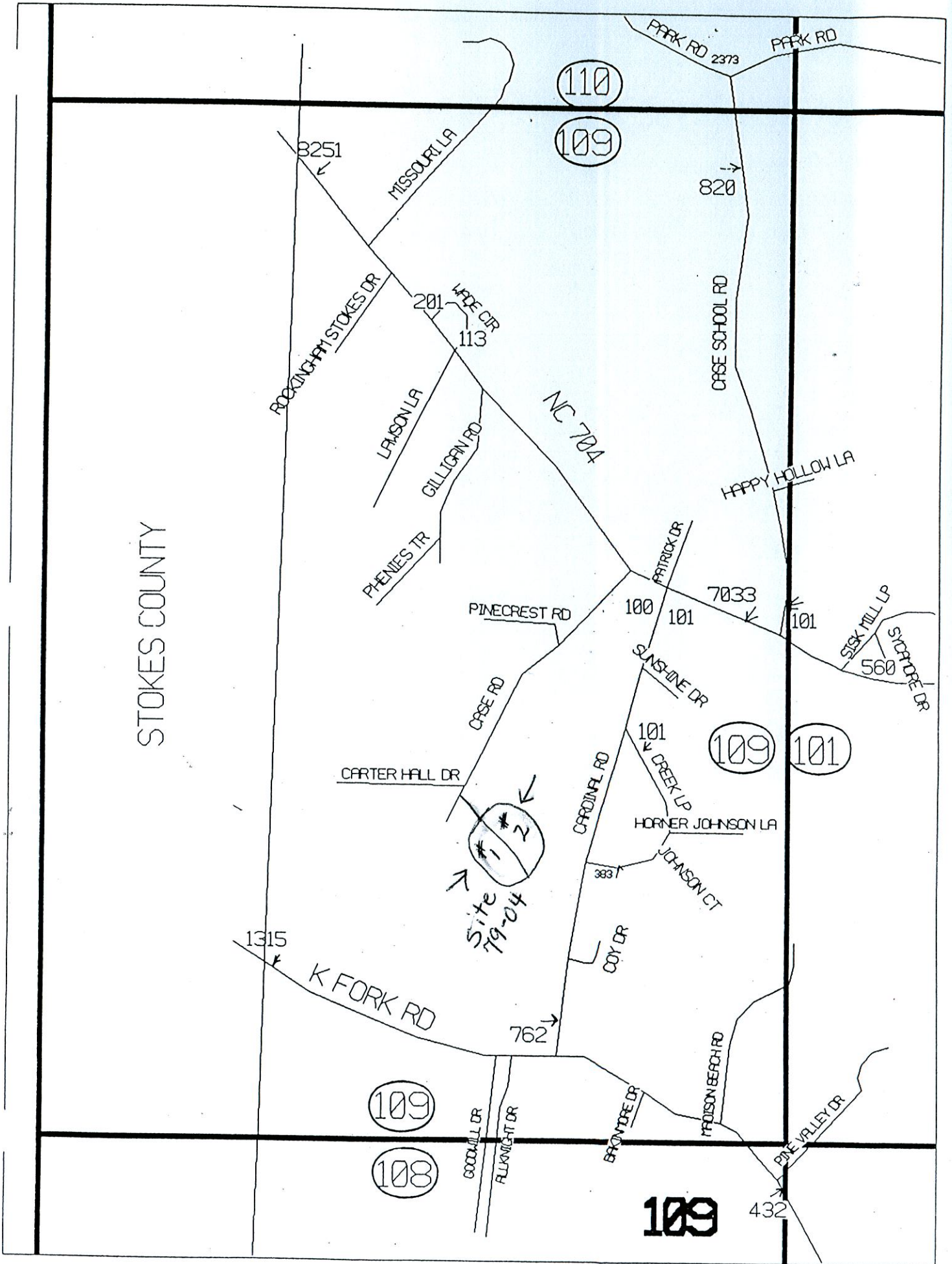
*Signature*

*8-8-2012*  
*8.8.2012*

*Date*



STOKES COUNTY







Field 1 - 5.8 acres

Field 2 - 5.6 acres

36.40585° N latitude

-80.01926° W longitude